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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,752	08/17/2006	Ari Kangas	4147-181	2219
23117 NIXON & VAN	7590 12/05/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	NGUYEN, NGA X		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			12/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/589,752	KANGAS, ARI					
Office Action Summary	Examiner	Art Unit					
	NGA X. NGUYEN	3662					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>25 Au</u>	iaust 2008.						
, <u> </u>	action is non-final.						
3) Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the	merits is				
closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>77-107</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>77-107</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>17 August 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	•	-					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under do o.e.e. g 110(a)	(a) or (i).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No					
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO/SB/08)	5)  Notice of Informal P 6) Other:	atent Application					
Paper No(s)/Mail Date	o) 🔲 Oulet						

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claim 77-107 are rejected under 35 U.S.C. 102(a) as being anticipated by Diggelen (2008/0036651).

With regard to claim 77, 89 & 98, Diggelen discloses:

- Receiving at the mobile terminal, signals from SATs (see page 3, paragraph 35)
- Measuring at the mobile terminal, pseudoranges to the SATs at time of signal reception (see page 3, paragraph 35-36)
- Calculating the location of the mobile terminal based on parameters representing the measured pseudoranges (see page 3, paragraph 36-37)
- Determining a quality measure associated with the location calculation (see page 8, paragraph 78-79)
- Comparing the determined quality measure to a first predefined quality criterion (see page 8, paragraph 77).
- Recalculating if the quality measure does not fulfill the 1<sup>st</sup> predefined quality criterion, the location of the terminal with added correction for error in at least one parameter representing a parameter measured at the mobile terminal, wherein recalculating involves correction for error in the parameter for the time of signal reception (see page 9, paragraph 83-84).

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With regard to claim 78-80, 90-92 & 99-101, Diggelen teaches:

- Comparing the determined quality measure of the recalculation with a second and third predefined quality criterion (see page 8, paragraph 80)

- Performing if the quality measure does not fulfill the second predefined quality criterion (see page 8-9, paragraph 80-82).

With regard to claim 81-84, 93-95 & 102-104, Diggelen teachesthat the iterative calculation procedure for pseudorange outlier correction involves location computations using a transmission time offsets parameter (see page 8, paragraph 79).

With regard to claim 85, 96 & 105, Diggelen teaches that th equality measure is a measure of the parameter quality using the residual of a least squares solution (see page 4, paragraph 46-47).

With regard to claim 86, 97& 106, Diggelen teaches that the measured pseudoranges is a truncated pseudorange (see page 3, paragraph 35)

With regard to claim 87-88, Diggelen teaches a mathematical model to solve the mobile terminal (see page 4-5, paragraph 47-49) which meets the claims.

With regard to claim 107, Diggelen teaches the communication system for determining the location of a mobile terminal in a cellular communication network (see page 3, paragraph 35).

## Response to Amendment

2. Applicant's arguments with respect to new claims 77-107 have been considered but are most in view of the new ground(s) of rejection.

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3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGA X. NGUYEN whose telephone number is (571)272-5217. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARCZA H. THOMAS can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NGA X NGUYEN Examiner Art Unit 3662

NXN

/Thomas H. Tarcza/

Supervisory Patent Examiner, Art Unit 3662